

Model: TMPA-070110-1720-10

Power Amplifier

70-110 GHz, Gain:17 dB, Psat:21 dBm

Feature:

- Frequency Range:70-110 GHz
- Gain:17 dB Typ
- Output Power Psat:21 dBm Typ
- Good Power and Gain Flatness

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	70-110			GHz
Gain		17		dB
Gain Flatness		±1.5		dB
Output Psat		21		dBm
Input VSWR		2		:1
Output VSWR		1.5		:1
DC Voltage		12		V DC
DC Supply Current		400		mA

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	WR-10/UG-387/U	
DC Bias	Solder Pin	
Size	40*50*20	mm
Weight	/	g

Absolute Maximum Ratings:

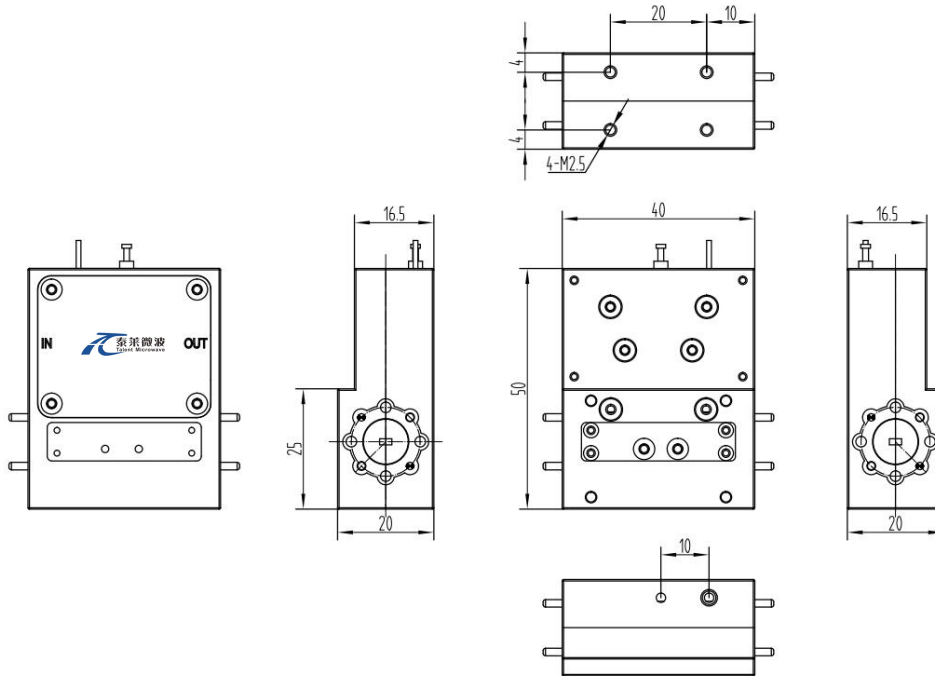
Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	20 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm(Inches)



Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

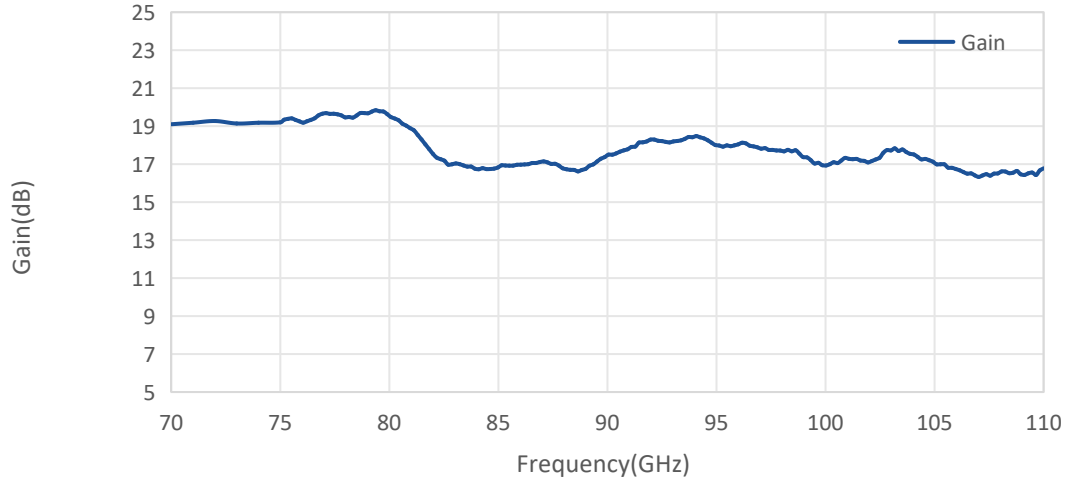
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave, 3 axis both directions			

Ordering Information:

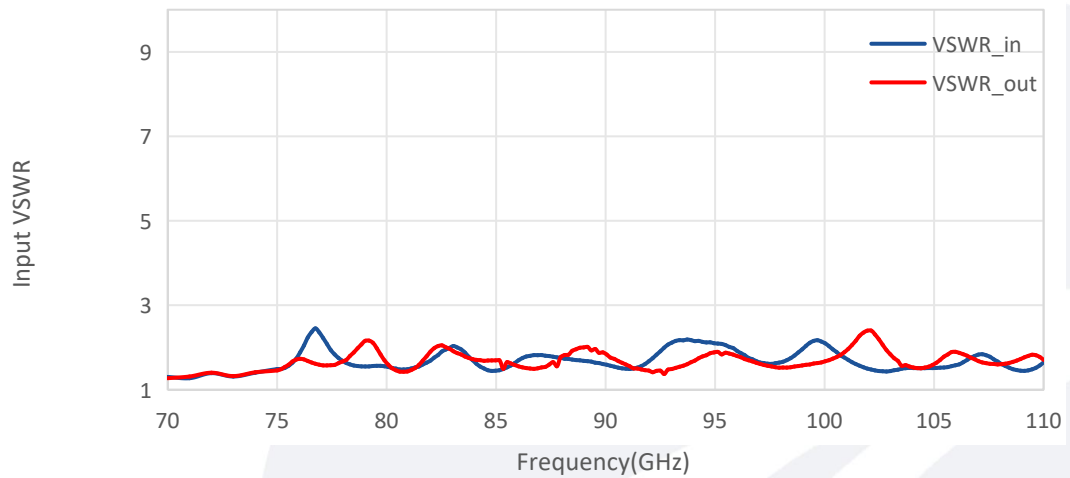
Part Number	Description	Revision
TMPA-070110-1720-10	Power Amplifier, 70-110 GHz, Gain: 17 dB Typ, Psat: 21 dBm Typ, +12V DC, WR-10	Rev.1.1

Typical Performance Data:

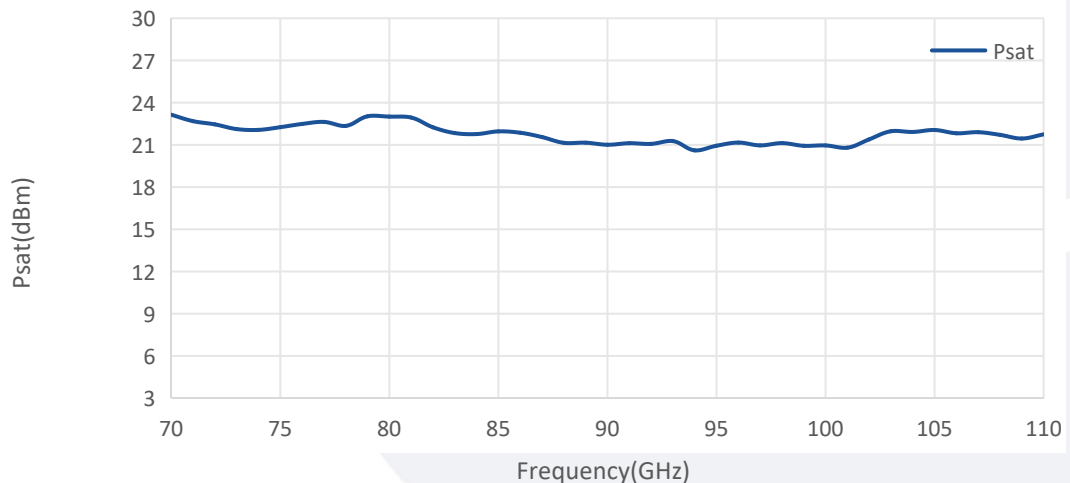
Gain vs Frequency



VSWR vs Frequency



Psat vs Frequency



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.